WHAT IS CLAIMED IS:

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1. A method for processing PDUs (Protocol Data Units) in a receiver, which can receive a PDU to which a TSN (Transmission Sequence Number) is allocated from a transmitter provided in an HSDPA (High-Speed Downlink Packet Access) communication system and store the received PDU in a reordering buffer, said method comprising the steps of:

setting a size of a receiver window associated with the received PDU; and when a sum of a TSN of the PDU at an upper edge of the receiver window and a value of the set receiver window size is larger than a value of a total TSN size where the TSN of the PDU from the transmitter is outside the receiver window, receiving a corresponding PDU if a TSN of the corresponding PDU is within a predetermined range even though the TSN of the corresponding PDU is smaller than the TSN at the upper edge of the receiver window.

- 2. The method as set forth in claim 1, wherein the predetermined range is designated to be adjacent to the receiver window.
 - 3. The method as set forth in claim 1, further comprising the step of:

when the sum of the TSN of the PDU at the upper edge of the receiver window and the value of the set receiver window size is smaller than the value of the total TSN size where the TSN of the PDU from the transmitter is outside the receiver window, storing a PDU with a TSN previous to TSNs of the receiver window in the reordering buffer.

4. The method as set forth in claim 1, further comprising the step of:

when the sum of the TSN of the PDU at the upper edge of the receiver window and the value of the set receiver window size is smaller than the value of the total TSN size where the TSN of the PDU from the transmitter is outside the receiver window, discarding a PDU with a TSN subsequent to TSNs of the receiver window.

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